

Guide to Monthly Water Report Data

(12/14/22)

Meter: Master flow meter for total water pumped. This occasionally resets to zero, but this correlates to the next column which is “gallons”.

Gallons: Total water pumped from the well into the system in one day.

Tot. Cl₂: Total chlorine measured in the system when the chlorine is first added to the system. This should be no higher than 4.0 mg/L and there must be a detectable residual through all parts of the water system at all times, with the recommendation of at least 0.1 mg/L or higher throughout the entire distribution system. The Total Cl₂ and Free Cl₂ calculations are used to compare what is being added to the system vs what is being used throughout distribution. This will allow the operator to see if the chlorine is being used up when compared to the residual found at the end or, at certain testing locations throughout distribution.

Free Cl₂: Total amount of chlorine in the system which is left over after the amount needed to disinfect. This should be no higher than 4.0 mg/L and there must be a detectable residual through all parts of the water system at all times, with the recommendation of at least 0.1 mg/L or higher throughout the entire distribution system.

Flu. Lev.: The level of fluoride in the system. Fluoride levels are targeted for between 0.6 mg/L – 1.0 mg/L with the optimal level of 0.7 mg/L.

Gals in: Total amount of water that is pumped into the fluoride mixture every time there is a new mixture created.

pH In: pH of the raw water out of the ground. This is usually about 6.4. The raw water will, for the most part, stay the same. Maybe a little change seasonally but it is good to watch the pH level of the raw water. If there is a huge change, that would mean there is a change in the source which would then cause the finished water pH to change as well. This would then lead to the treatment being changed or a deeper look and investigation into the source itself.

pH Out: pH of the water after treatment. The normal range is 6.5-8.5

Temp: This is the temperature of the water measured in Celsius at the wastewater plant. This is relevant to calibrate the PH meter which is located at the wastewater plant.